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SEQUENCE LISTING

<110> Shimkets, Richard A.
Leach, Martin D.

<120> cSingle Nucleotide Polymorphisms for Known Genes

<130> 15966-534-CIP1

<140> 09/472,688

<141> 1999-12-27

<150> 60/109,024

<151> 1998-11-17

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 <400> 191
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 gcgaggtggt tgtgtccaat atccttaagg acacgcaggt gactcgacag g 51

<210> 193
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 <223> Nucleotide deleted between bases 25 and 26

 <221> misc_feature
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<223> Accession number cg43300673

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 <221> misc_feature
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 <400> 213
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 <210> 214
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 <400> 214
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 <210> 215
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 <400> 215
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 <210> 217
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 <400> 217

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<400> 218
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<210> 219
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<400> 220
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<210> 221
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 <210> 222
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 <400> 222
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 <210> 223
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 <223> Accession number cg43956560
 <400> 223
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 <210> 224
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 <223> Accession number cg43956560
 <400> 224
 caacagttcc ttcagttcc atttcacccc tcatttatcc ctcaaccccc a 51
 <210> 225

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<211> 51
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<400> 225
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51

<210> 226
<211> 51
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<223> Accession number cg43264626

<400> 226
tggccacagt gaaaaaggctc atgggaggag agaagcaaag taggaaggat c
51

<210> 227
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<400> 227
accgcaccct ttccaccggt ggggggcccga gtgaagttta acaaactgct g
51

<210> 228
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 <223> Accession number cg43933757

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 <210> 232
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 <210> 233
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<210> 239
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 <400> 241
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 <400> 242
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 <400> 245
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 <210> 246
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<400> 246
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<210> 247
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<210> 248
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<210> 249
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<210> 250
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 <400> 250
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 <400> 254
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 <210> 257
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 <400> 257
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 <210> 258
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 <400> 258
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 <210> 259
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 <210> 260
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 <400> 260
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 <210> 261
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 <210> 263
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 <210> 269
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<221> misc_feature
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<210> 306
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<223> Accession number cg43306254

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 <223> Accession number cg43306254

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 <210> 320
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 <210> 337
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 <223> Accession number cg43306266

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 <223> Accession number cg43329467
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 <400> 347
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<210> 356
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 <210> 359
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 <210> 372
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<210> 377
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50

<210> 383
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<210> 389
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<210> 391
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 <210> 401
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 <210> 427
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 <223> Nucleotide deleted between bases 25 and 26

 <221> misc_feature
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 <221> misc_feature
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<221> misc_feature
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 <221> misc_feature
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 <220>
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 <222> (7)...(0)
 <223> cSNP translation

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1 5 10

<210> 653
<211> 14
<212> PRT
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<220>
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<222> (7)...(0)
<223> cSNP translation

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1 5 10

<210> 654
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<223> cSNP translation

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Gly Ala Pro Leu Tyr Met Asp Ser Arg Ala Asp Arg Lys Leu
1 5 10

<210> 655
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<400> 655
Gln Ala Gly Thr Thr Leu Asp Leu Asp Leu Gly Gly Lys His
1 5 10

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Lys Cys Glu Cys Ser Arg Ala Tyr Gln Met Asp Leu Ala Thr
1 5 10

<210> 657
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 Val Pro Leu Glu Thr Pro Arg Val His Ser Arg Ala Pro Ser
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 <220>
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 <222> (7)...(0)
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 <400> 659
 Pro Phe Gly Val Ile Val Arg Arg Gln Leu Asp Gly Arg Val
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 <210> 660
 <211> 14
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 <400> 660
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<222> (7)...(0)
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 Gly Ala Met Leu Leu Asn Ile Ser Gly His Val Lys Glu Ser
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 Gln Gly Gly Lys Leu Ser Val Val Leu Arg Ala Glu Asp Ile
 1 5 10

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 <220>
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 Pro Gly Asp Ile Ser Arg Leu Leu Glu Phe Thr Lys Ala His
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 <210> 665
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 <212> PRT
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 <220>
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 <400> 665
 Val Val Ile Pro Ser Asp Phe Phe Gln Ile Val Gly Gly Ser

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<210> 666
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 <212> PRT
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<220>
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<400> 666
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 1 5 10

<210> 667
 <211> 14
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 <223> cSNP translation

<400> 667
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 1 5 10

<210> 668
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 <212> PRT

<213> Homo sapiens
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 <400> 671
 Val Ala Leu Pro Gln Pro Leu Gly Val Pro Asn Glu Ser Gln
 1 5 10
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 <212> PRT
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 Gly Ile Gln Asn Lys Glu Val Glu Val Arg Ile Phe His Cys
 1 5 10
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 <211> 14
 <212> PRT
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 <400> 673
 Val Asp Asn Ile Arg Ser Val Phe Gly Asn Ala Val Ser Arg
 1 5 10
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 <211> 14
 <212> PRT
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<222> (7)...(0)
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 <400> 674
 Leu Thr Ile Gln Leu Ile Glu Asn His Phe Val Asp Glu Tyr
 1 5 10

 <210> 675
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 <212> PRT
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 <400> 675
 Tyr Gly Ile Pro Phe Ile Gln Thr Ser Ala Lys Thr Arg Gln
 1 5 10

 <210> 676
 <211> 14
 <212> PRT
 <213> Homo sapiens

 <220>
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 <400> 676
 Ser Ala Ser Lys Gln Ala Val Arg Pro Val Leu Ala Thr Thr
 1 5 10

 <210> 677
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 <220>
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 1 5 10

 <210> 678
 <211> 14
 <212> PRT
 <213> Homo sapiens

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 <400> 678
 Val Gly Thr Tyr Arg Cys Val Pro Gly Lys Lys Gly Gly Tyr

1 5 10
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 <211> 14
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 Gly Arg Ala Thr Ser Gly Ser Glu His Gln Phe Cys Gly Gly
 1 5 10

 <210> 680
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 1 5 10

 <210> 681
 <211> 14
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 <400> 681
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 1 5 10

 <210> 682
 <211> 14
 <212> PRT
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 <400> 682
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 1 5 10

 <210> 683
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 Ser Gly Tyr Pro Lys Met Ser Ala His Thr His Ser Ser Phe
 1 5 10
 <210> 685
 <211> 14
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 1 5 10
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 <400> 686
 Asp Pro Leu Ile Tyr Ala Phe Arg Ser Gln Glu Met Arg Lys
 1 5 10
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 <400> 687
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 1 5 10

 <210> 688
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 <212> PRT
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 <400> 688
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 1 5 10

 <210> 689
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 <212> PRT
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 <220>
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 <222> (7)...(0)
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 <400> 689
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 1 5 10

 <210> 690
 <211> 14
 <212> PRT
 <213> Homo sapiens

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 <400> 690
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 1 5 10

 <210> 691
 <211> 14
 <212> PRT
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 <400> 691
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 1 5 10

<210> 692
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 <212> PRT
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 <400> 692
 Arg Ala Leu Tyr Leu Leu Ile Arg Arg Val Leu His Leu Gly
 1 5 10

 <210> 693
 <211> 14
 <212> PRT
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 <400> 693
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 1 5 10

 <210> 694
 <211> 14
 <212> PRT
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 <222> (7)...(0)
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 <400> 694
 Ser Ala Ala Ser Tyr Asn Val Lys Thr Ala Tyr Arg Lys Tyr
 1 5 10

 <210> 695
 <211> 8
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 <400> 695
 Glu Ser Thr Thr Val Gly Ser Ser
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 <210> 696
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 1 5 10

<210> 697
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 <212> PRT
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 <223> cSNP translation

<400> 697
 Asp Asn Phe Ser Val Thr Glu Val Pro Phe Thr Glu Ser Ala
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<210> 698
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<220>
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 <222> (7)...(0)
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<400> 698
 Pro Gly Arg Arg Gln Arg Leu Thr Met Ala Ile Arg Thr Val
 1 5 10

<210> 699
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 <212> PRT
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<220>
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 <222> (7)...(0)
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<400> 699
 Leu Ala Gly Lys Val Ala Gln Val Lys Lys Asn Gly Arg Ile
 1 5 10

<210> 700
 <211> 14
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (7)...(0)
 <223> cSNP translation

<400> 700
Leu Glu Asn Gln Lys Lys Val Arg Lys Lys Lys Val Leu Ile
1 5 10

<210> 701
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)...(0)
<223> cSNP translation

<400> 701
Val Ser Asp Glu Glu Leu Asp Gln Met Leu Asp Ser Gly Gln
1 5 10

<210> 702
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)...(0)
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<400> 702
Trp Leu Gly Phe Asn Lys Gln Arg Gly His Leu Gln Ile Ala
1 5 10

<210> 703
<211> 14
<212> PRT
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<220>
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<400> 703
Glu Pro Glu Cys Arg Glu Val Phe His Arg Arg Ala Arg Ala
1 5 10

<210> 704
<211> 14
<212> PRT
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<220>
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<222> (7)...(0)
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<400> 704
Leu Pro Cys Gly Pro Gly Val Lys Gly Arg Cys Phe Gly Pro
1 5 10

<210> 705
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 <212> PRT
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 <220>
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 <222> (7)...(0)
 <223> cSNP translation

 <400> 705
 Ser Ala Met Asp Thr Arg Leu Leu Cys Cys Ala Val Ile Cys
 1 5 10

 <210> 706
 <211> 14
 <212> PRT
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 <220>
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 <222> (7)...(0)
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 <400> 706
 Asn Thr Arg Leu Leu Cys His Val Met Leu Cys Leu Leu Gly
 1 5 10

 <210> 707
 <211> 14
 <212> PRT
 <213> Homo sapiens

 <220>
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 <223> cSNP translation

 <400> 707
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 1 5 10

 <210> 708
 <211> 14
 <212> PRT
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 <220>
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 <223> cSNP translation

 <400> 708
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 1 5 10

 <210> 709
 <211> 14
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<220>
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 <223> cSNP translation

 <400> 709
 Gln Lys Gln Met Glu Leu Asp Ser Ile Leu Val Ala Leu Leu
 1 5 10

 <210> 710
 <211> 14
 <212> PRT
 <213> Homo sapiens

 <220>
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 <222> (7)...(0)
 <223> cSNP translation

 <400> 710
 Gly Ser Thr Val Ile Ala Gly Ser Ile Asn Ala His Gly Ser
 1 5 10

 <210> 711
 <211> 14
 <212> PRT
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 <223> cSNP translation

 <400> 711
 Pro Val Met Gly Leu Met Ile Tyr Met Met Val Met Asp His
 1 5 10

 <210> 712
 <211> 14
 <212> PRT
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 <220>
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 <222> (7)...(0)
 <223> cSNP translation

 <400> 712
 Ser Ser Gln Asp Pro Ala Ser Val Arg Glu Cys His Asp Pro
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 Val Leu Leu Leu Gly Ala Cys Ala Ala Pro Pro Ala Trp
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 Ser Leu Pro Tyr Ala Val Ala Pro Leu Ser Leu Pro Arg Gly
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 Tyr Gly Pro Gln Cys Gln Leu Val Ile Gln Cys Glu Pro Leu
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 Thr Met Asp Cys Thr His Ser Leu Gly Asn Phe Ser Phe Ser
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Cys Asn Gly Val Ala Val Cys Ser Asn Gln Asp Leu Ile Thr
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Leu Val Ser Tyr Cys Pro Arg Arg Leu Gln Gln Leu Leu Pro
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Ile Asn Ala Tyr Ile Ser His Leu Gly Phe Arg Phe
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Leu His Ser Gly His Arg Gln Arg Pro Glu Phe Arg Pro Tyr
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Val Met Pro His Ser Ser Glu His Lys Thr Ala Gln Pro Asn
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1 5 10

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1 5 10

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 Ala Gln Ile Phe Asp Tyr Ser Glu Ile Pro Asn Phe Pro Arg
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<210> 788
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<400> 788
Glu Ala Met Glu Arg Phe Gly Glu Asp Glu Gly Phe Ile Lys
1 5 10

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1 5 10

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1 5 10

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Arg Trp Thr Asn Asn Phe Thr Glu Tyr Asn Leu His Arg Val
1 5 10

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 1 5 10

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 <400> 798
 Leu Arg Ile Gln Cys Leu Cys Arg Lys Gln Ser Ser Lys His
 1 5 10

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 <400> 799
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 <210> 800
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 <400> 800

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1 5 10

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<400> 801
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1 5 10

<210> 802
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1 5 10

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1 5 10

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<210> 805
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 Arg Gly Ala Arg Pro Gly Pro Arg Val Pro Lys Thr Leu Val
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 Lys Ala Phe Leu Thr Ser His Ser Leu Arg Ile His Val Arg
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 Ser Glu Ala Ser Ser Ala Phe Phe Met Ala Lys Lys Lys Thr
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 Glu Leu Tyr Arg Asp Ile Leu Gln His Leu Arg Asp Glu Ser
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 Tyr Val Phe Thr Asp Gln Leu Ala Ala Val Pro Arg Val Thr
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 <400> 810
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 <400> 812
 Phe Gly Thr Leu His Pro Ser Phe Tyr Gly Ser Ser Arg Glu
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 <400> 813
 Glu Gly Asp Phe Tyr Tyr Met Gly Gly Phe Phe Gly Gly Ser

<213> Homo sapiens
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 <400> 818
 Gly Phe Val Val Phe Ser Ser Leu Gly Tyr Met Ala Gln Lys
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 Met Asp Glu Ala Ala Arg Pro Glu Ala Trp Asp Ser Tyr Arg
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 1 5 10
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<400> 822

Val Gln Asp Ile Leu Arg Leu Glu Met Pro Ala Ser Lys Ile
1 5 10

<210> 823

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Ser Glu Arg Glu Thr Glu His Thr Pro Ala Leu Ile Met Val
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Lys Val Leu Asp His Trp Cys Ile Met Thr Ser Glu Glu Glu
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<211> 14

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Gln Glu Val His Gly Pro Tyr Pro Asp Ser Ser Phe Leu Thr
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<211> 14

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Gln Glu Val His Gly Pro Ile Pro Asp Ser Ser Phe Leu Thr
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<210> 827
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Glu Leu Cys His Glu Lys Gly Ile Leu Glu Lys Tyr Gly His
1 5 10

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Asn Asn Asn Leu Arg His Thr Asp Glu Met Phe Trp Asn His
1 5 10

<210> 829
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Gly Met Ala Ser Ser Cys Ser Val Gln Val Lys Leu Glu Leu
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<210> 830
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<400> 830
Pro Ser Ile Phe Ile Tyr Arg His Thr Ala Ser Gly Lys Thr
1 5 10

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 Pro Pro Pro Pro Pro Gly Ala Pro Gly Gly Ser Gln Asp Thr
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 Arg Ala Ala Leu Glu Arg Gly Lys Ala Ile Glu Lys Asn Leu
 1 5 10

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 Thr Gly Gly Leu Leu Arg Leu Ala Leu Met Leu Gln Leu
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Leu Glu Pro Gln Trp Tyr Ser Val Leu Glu Lys Asp Ser Val
1 5 10

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Gln Lys His Ser Ser Gly Xaa Ser Asn Thr Ser Thr Ala Asn
1 5 10

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<400> 837
Trp Gly Thr Glu Asp Asp Ala Thr Gln Ser Tyr His Asn Gly
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Arg Cys Met Gly Thr Val Asn Leu Asn Gln Ala Arg Gly Ser
1 5 10

<210> 839
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Phe Ser Lys Leu Leu Gly Pro Leu Ser Ala Lys Lys Tyr Leu
1 5 10

<210> 840
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Thr Ser Lys Ile Leu Phe Phe Ser Gln Gly Ser Glu Ile Ala
1 5 10

<210> 841
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1 5 10

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Lys Gly Gly Glu Gln Lys Arg His Glu Lys Ile Ser Ala Ser
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 <210> 848
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Leu Asp Lys Lys Glu Leu Ser Ser Ile Leu Asn Ile Thr Ala
1 5 10

<210> 849
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<400> 850
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1 5 10

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Thr Ile Gln Pro Pro Arg Glu
1 5

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Gly Ile Val Gly Gln Lys Gly Arg Pro Trp Leu Pro Arg Thr
1 5 10

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 <210> 858
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 <210> 860
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 <210> 861
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 <400> 861

Arg Tyr Leu Asp Trp Ile Leu Trp Ala His Gln Arg
1 5 10

<210> 862
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<400> 862
Ala Glu Leu Arg Leu Leu Arg Ala Gln Val Lys Ser Gly Ala
1 5 10

<210> 863
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1 5 10

<210> 864
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Ile His Phe Glu Asp Tyr Gly Val Leu Gly His His Gln Leu
1 5 10

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 1 5 10

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 <210> 869
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 <210> 871
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 <400> 871
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 1 5 10

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 <212> PRT
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 <223> cSNP translation

 <400> 872
 Gln Arg Ser Ile Ser Ala Asp
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 <210> 873
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 <400> 873
 Arg Ala Pro Val Ile Leu Gly Pro Pro Thr Thr Cys Ser Ser
 1 5 10

 <210> 874
 <211> 14
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 <400> 874
 Met Gly Leu Ser Gly Phe Leu Thr Gly Pro Pro Pro Pro Gly

<213> Homo sapiens

<220>

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<223> cSNP translation

<400> 879

Lys Cys Lys Cys Ser Arg Lys Asp Pro Arg Ser Ala Thr Ala
1 5 10

<210> 880

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 880

Cys Lys Cys Ser Arg Lys Asp Pro Arg Ser Ala Thr Ala Thr
1 5 10